

SURFACE MOUNT ULTRAFAST EFFICIENT RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.0 Ampere

Features

- · Plastic package has Underwriters Laboratory
- · Flammability Classification 94V-0
- · Glass passivated chip junctions
- · Ultrafast recovery times for high efficiency
- · Low forward voltage, low power loss
- · High temperature soldering guaranteed:
- · 260°C/10 seconds on terminals
- · RoHS compliant package

Mechanical Data

- · Case: JEDEC DO-214AC molded plastic body
- · Terminals: Solder plated, solderable per

MIL-STD-750, Method 2026

- · Polarity: Color band denotes cathode end
- · Weight: 0.063 gram

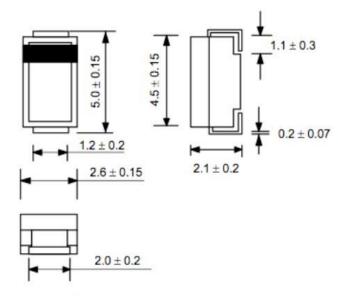
Packing & Order Information

5,000/Reel





SMA (DO-214AC)



Dimensions in millimeters

Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified										
		US1A	US1B	US1D	US1G	US1J	US1K	US1M	UNITS	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS voltage	V _{RWS}	35	70	140	280	420	560	700	V	
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	100	V	
Maximum average forward rectified		1							A	
current at T _L =110°C	I _{F(AV)}	1								
Peak forward surge current 8.3ms single		30							А	
half-sine-wave	IFSM									



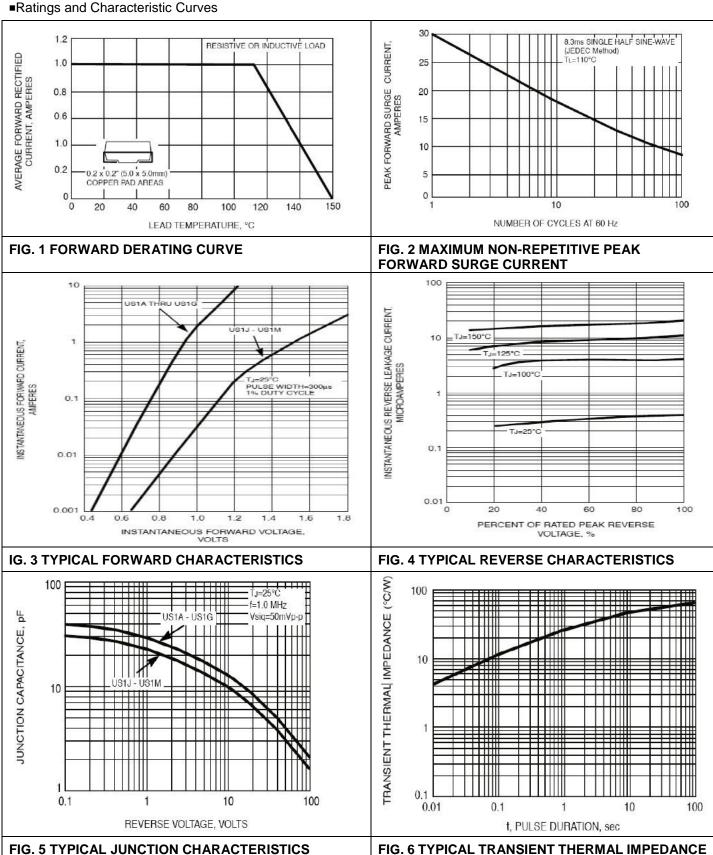
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Ratings at 25°C ambient temperature unless otherwise specified											
		US1A	US1B	US1D	US1G	US1J	US1K	US1M	UNITS		
Maximum instantaneous forward voltage	M		1.0		1.4		17		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
at I _{FM} =2.0A	V _F	1.0			1.4	1.7			V		
Maximum DC reverse current TJ=25°C		10							uA		
At rated DC blocking voltage TA=100°C	I _R	50									
Maximum reverse recovery time	Trr		5	0		75			nS		
Typical junction capacitance	Cj			15			pF				
Maximum thermal resistance	R _{θJA}	35						°C/W			
	R _{0JL}	27					°C/W				
Storage temperature range	T _{STG}	-55 to +150						°C			

NOTE: 1.Pulse test: Pulse width 300us, duty cycle 1%



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